

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
23 December 2004 (23.12.2004)

PCT

(10) International Publication Number  
**WO 2004/110512 A3**

(51) International Patent Classification<sup>7</sup>: **A61L 27/38**,  
27/54, A61K 35/32, C12N 5/06, A61B 17/32

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(21) International Application Number:  
**PCT/DK2004/000408**

(22) International Filing Date: 11 June 2004 (11.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
**PA 2003 00871 12 June 2003 (12.06.2003) DK**

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
**6 May 2005**

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/110512 A3

(54) Title: **A METHOD FOR CELL IMPLANTATION**

(57) Abstract: An endoscopic method for treating cartilage or bone defects in an animal, said method comprising the steps of: I) identifying the position of the defect, ii) applying cells selected from the group consisting of chondrocytes, chondroblasts, osteocytes and osteoblasts and combinations thereof into the cartilage or bone defect. In particular, the invention relates to a method for arthroscopic or endoscopic implantation of homologous or autologous cells into a defect of an animal body, the method comprising a step of I) arthroscopic or endoscopic application of a fluid to a cavity or surface containing the defect, and the steps of ii) application of the cells to the defect substantially simultaneously with a support material, the application being performed at the defect covered by a mixture of cells and support material, iv) solidification of the supporting material so that the defect is covered by a mixture of cells and support material without any significant amount of fluid, and v) optionally, removal of the fluid from the cavity or surface by drainage or suction.